

IN THE CLAIMS:

Please AMEND the claims and ADD new claims in accordance with the following:

1. (Currently Amended) An optical device module comprising:
an optical device with a plurality of electrodes disposed at predetermined positions;
a substrate disposed oppositely to the optical device and with wiring patterns for connecting to the electrodes;
a pair of side wall plates that hold the substrate on the optical device;
the pair of side wall plates being positioned a top a soaking structure;
said substrate and pair of side wall plates being arranged at a predetermined distance from said optical device along an incoming light advancing direction between each side wall plate and an inner surface of the optical device module; and
a wiring that connects the electrodes to the wiring patterns to prevent signal degradation and cross-talk.
2. (Canceled).
3. (Previously Presented) The optical device module according to claim 1, further comprising:
a heating/cooling unit that performs a function selected from a group consisting of heating the optical device using self-generated heat and cooling the optical device by absorbing heat; and
a soaking unit that uniformly transmits heat generated by the heating/cooling unit to an entire surface of the optical device, wherein
the side wall plates are arranged on the soaking unit.
4. (Previously Presented) The optical device module according to claim 1, further comprising:
a heating/cooling unit that performs a function selected from a group consisting of heating the optical device using self-generated heat and cooling the optical device by absorbing heat; and
a soaking unit that uniformly transmits the heat generated by the heating/cooling unit to an entire surface of the optical device; and

a package that holds the heating/cooling unit, wherein the side wall plates are arranged on the inner bottom surface of the package.

5. (Original) The optical device module according to claim 1, wherein at least one opening is formed on the substrate for passing the wiring so that the electrodes can be connected to the wiring patterns.

6. (Original) The optical device module according to claim 1, wherein the substrate includes a plurality of substrates.

7. (Original) The optical device module according to claim 3, wherein the heating/cooling unit is selected from a group consisting of a heater and a Peltier element.

8. (Original) The optical device module according to claim 4, wherein the heating/cooling unit is selected from a group consisting of a heater and a Peltier element.

9. (Original) The optical device module according to claim 1, wherein the optical device is a waveguide type optical device.

10. (Previously Presented) The optical device module according to claim 9, wherein an acousto-optic tunable optical filter is used for the waveguide type optical device.

11. (Previously Presented) The optical device module according to claim 1, wherein the substrate and the side wall plates are made of material having relatively low heat conductivity.

12. (Original) The optical device module according to claim 11, wherein the substrate and the side wall plates are made of ceramics.

13. (Original) The optical device module according to claim 1, wherein the electrodes are electrodes of an inter-digital transducer that excites surface acoustic wave.

14. (Original) The optical device module according to claim 1, further comprising: a lead-through block with wiring patterns provided on a side surface of the

substrate for leading through the wiring patterns formed on the substrate and leads with free communication with the relevant wiring patterns; and

a wiring that connects the wiring patterns to the wiring patterns.

15. (Original) The optical device module according to claim 1, wherein the wiring pattern includes a signal line for supplying specified signals and a ground line in communication with the ground.

16. (Original) The optical device module according to claim 15, wherein the wiring patterns is any of a 50-Ω line selected from a group consisting of a microstrip, a grounded coplanar, a coplanar.

17. (Currently Amended) An optical device module comprising:
an optical device with a plurality of electrodes;
a substrate with wiring patterns for connecting to the electrodes; and
a pair of side wall plates that hold the substrate above the optical device, wherein
the substrate is arranged at a predetermined vertical distance from the
optical device, and
each of the side wall plates is arranged at a predetermined horizontal
distance from the optical device along an incoming light advancing direction between each side
wall plate and an inner surface of the optical device module to prevent signal degradation and
cross-talk.

18. (Currently Amended) The optical device module according to claim 17, further comprising:

a soaking unit upon which the pair of side wall plates rests;
~~—— a bridge substrate supported by the side wall plates, wherein the substrate is
housed between the side wall plates along an upper portion of the soaking unit and below the
bridge substrate.~~

19. (Currently Amended) The optical device module according to claim 18, wherein
the pair of side wall plates holds the ~~bridge~~ substrate at a predetermined vertical distance from
the ~~substrate~~ optical device to provide heat resistance.

20. (New) An optical device module comprising:
an optical device with a plurality of electrodes disposed at predetermined positions;
a plurality of serially connected optical filters;
a substrate containing a plurality of wiring patterns for connecting to the electrodes and disposed oppositely to the optical device;
a pair of side wall plates that hold the substrate opposite the optical device;
the pair of side wall plates being positioned atop a soaking structure;
the substrate positioned atop the soaking structure for heat dissipation;
the soaking structure having a length corresponding to the number of serially connected optical filters; and
a wiring that connects the electrodes to the wiring patterns to prevent signal degradation and cross-talk.
21. (New) An optical device module comprising:
an optical device with a plurality of electrodes disposed at predetermined positions;
a substrate disposed oppositely to the optical device and with wiring patterns for connecting to the electrodes;
a pair of side wall plates that hold the substrate on the optical device; and
a wiring that connects the electrodes to the wiring patterns, wherein
each of the side wall plates is arranged at a predetermined horizontal distance from the optical device so as not to come into contact with the optical device for the full width of the side wall plates.